

ABSTRACT OF THE DISCLOSURE

A system and method for excitation of photosensitizers is configured to provide desired illumination on targeted eye tissue. The excitation system includes an optical module that generates illumination and a controller to power the optical module and control the shape, intensity or energy level, and duration of the illumination. The optical module includes a contact portion for interfacing with the eye, a treatment beam portion including a light emitter array to generate shaped light patterns and optics to focus the light patterns onto the eye, and a visualization portion to provide visual feedback of treatment through a visualization interface coupled with a microscope. A typical treatment involves the optical module being placed on a diseased eye of a patient by a clinician to project illumination on a diseased portion of the eye. The clinician typically views the eye through the microscope and the optical module during treatment.

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